

# Service Manual

14 : 1 Auto Iris Servo Control Zoom Lens

AW-S14xBMD

AW-S14xBRM



AW-S14 x BMD



AW-S14 x BRM

## SPECIFICATIONS

### [AW-S14xBMD]

<b>Focal Length :</b>	7.3 m 102 mm, 14 times
<b>Maximum Relative Aperture :</b>	F1.9 (wide), F2.1 (tele)
<b>Image Size :</b>	φ8 mm (6.4 mm x 4.8 mm)
<b>Iris :</b>	Automatic or Manual
	F1.9 - F16, C (close)
	Zoom. Automatic or Manual
	Focus. Automatic or Manual
<b>Focusing Range :</b>	1 m - ∞
<b>Field of View :</b>	Wide Tele
<b>Horizontal :</b>	47.2° 3.3°
<b>Vertical :</b>	36.2° 2.4°
<b>Diagonal :</b>	57.2° 4.2°
<b>Macro Range :</b>	40 mm - 1.1 m
<b>Flangeback :</b>	35.74 mm ± 0.3 mm adjustable
<b>Mount :</b>	Bayonet Mount
<b>Filter Size :</b>	φ62 mm P = 0.75 mm
<b>Dimensions :</b>	φ85 x 192.5 (D) mm [φ3-3/8" x 7-9/16" (D)]
<b>Weight :</b>	0.85 kg (1.9 lbs)

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### **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public.

It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

  <div><b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN</div>	 <p>This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.</p>
<div>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</div>	 <p>This symbol alerts the user that important literature concerning the operation and maintenance of this has been included. Therefore, it should be read carefully in order to avoid any problems.</p>

### **IMPORTANT SAFETY NOTICE**

There are special components used in this equipment which are important for safety. These parts are indicated by the "⚠" mark on the schematic diagram and the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-radiation, shock, fire, or other hazards. Do not modify the original design without permission of manufacture.

## **[AW-S14xBRM]**

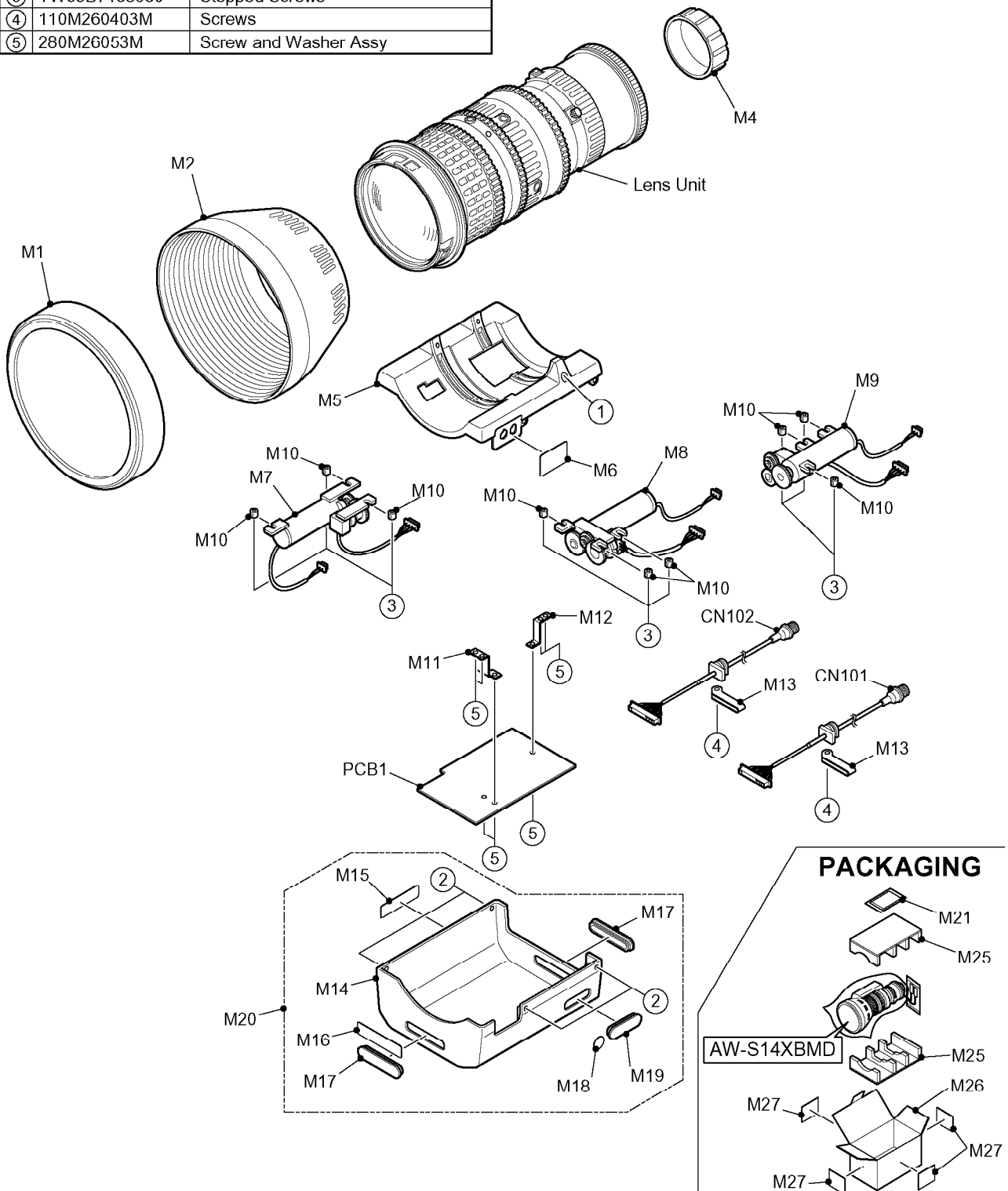
<b>Focal Length :</b>	7.5m 105 mm, 14 times
<b>Maximum Relative Aperture :</b>	F1.4 (wide), F1.8 (tele)
<b>Image Size :</b>	φ8 mm (6.4 mm x 4.8 mm)
<b>Iris :</b>	Automatic or Manual
	F1.4 - F16, C (close)
<b>Focusing Range :</b>	1.1m - ∞
<b>Field of View :</b>	Wide Tele
<b>Horizontal :</b>	46.1° 3.3°
<b>Vertical :</b>	35.3° 2.4°
<b>Diagonal :</b>	56.1° 4.2°
<b>Macro Range :</b>	40 mm - 1.1m
<b>Flangeback :</b>	35.74 mm ± 0.4 mm adjustable
<b>Mount :</b>	Bayonet Mount
<b>Filter Size :</b>	φ72 mm P = 0.75 mm
<b>Dimensions :</b>	φ110 x 192 (D) mm [φ4-5/16" x 7-1/2" (D)]
<b>Weight :</b>	1.08 kg (2.4 lbs)

Weight and dimensions shown are approximate.  
Specifications are subject to change without notice.

# EXPLODED VIEW OF AW-S14xBMD

○ Numbers show screws, washers, nuts and etc.

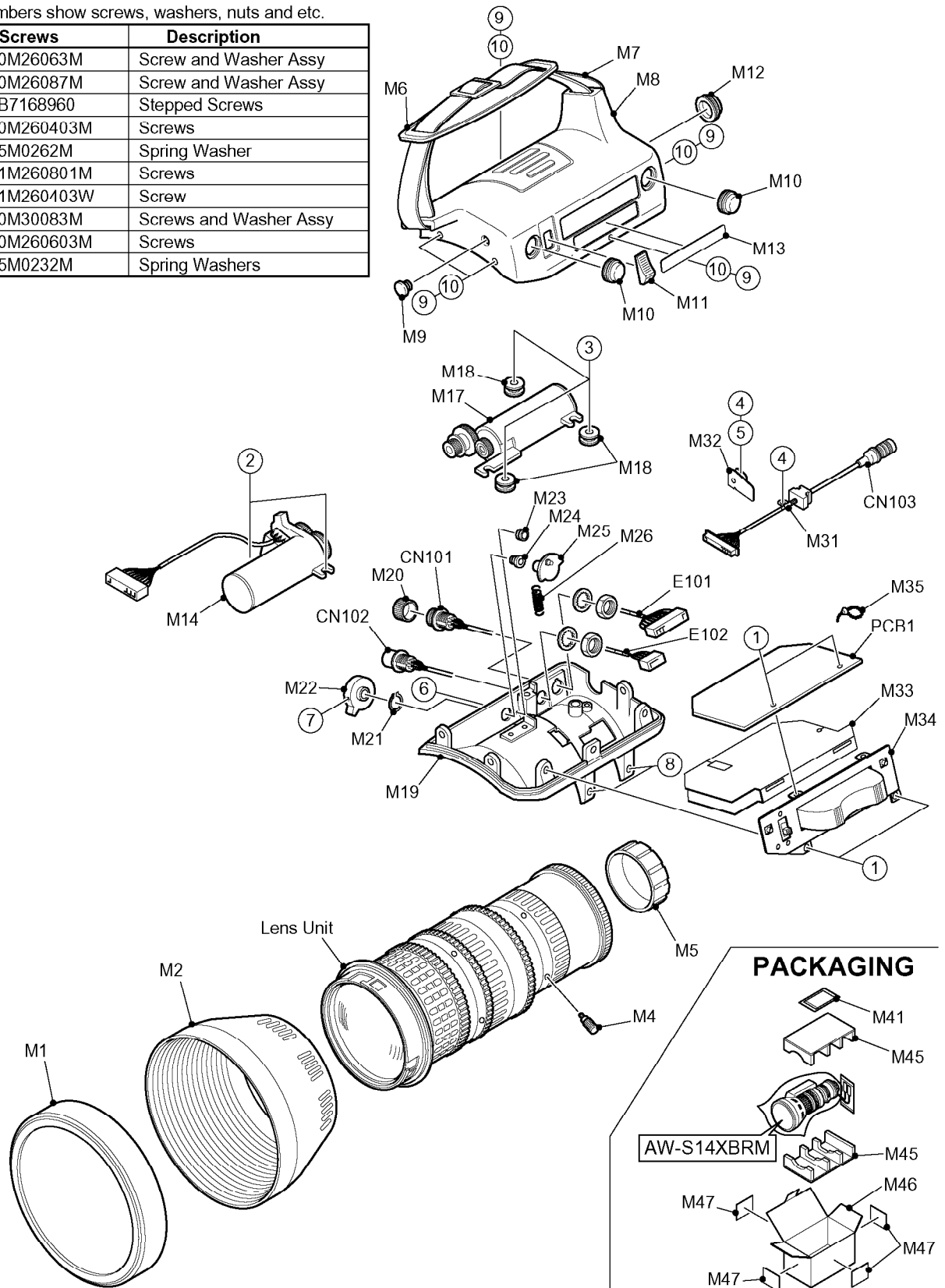
No.	Screws	Description
①	280M30083M	Screw and Washer Assy
②	110M260503M	Screws
③	YW53B7168960	Stepped Screws
④	110M260403M	Screws
⑤	280M26053M	Screw and Washer Assy



# EXPLODED VIEW OF AW-S14xBRM

○ Numbers show screws, washers, nuts and etc.

No.	Screws	Description
①	280M26063M	Screw and Washer Assy
②	280M26087M	Screw and Washer Assy
③	53B7168960	Stepped Screws
④	110M260403M	Screws
⑤	165M0262M	Spring Washer
⑥	111M260801M	Screws
⑦	131M260403W	Screw
⑧	280M30083M	Screws and Washer Assy
⑨	110M260603M	Screws
⑩	165M0232M	Spring Washers



# REPLACEMENT PARTS LIST

## Important Notice

- Components identified by "△" mark have special characteristics important for safety.  
When replacing any of these components, use only manufacturer's specified parts.
- RTL : Retention Time Limited (No longer available after discontinuing product).

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
AW-S14x BMD			AW-S14x BRM		
PCB1	338A8318010	Amplifier	PCB1	338A6362910	Amplifier
CN101	112A8325510	Connector Ass'y	CN101	112K320460	Connector
CN102	113A8309930	Connector Ass'y	CN102	112K375870	Connector
M1	300M100N	Lens Cap	CN103	113A6658960	Cable Ass'y
M2	27B7981610	Hood	E101	112B6644770	Connector with Wires
M4	57K798970	Rear Cap	E102	112B6644730	Connector with Wires
M5	41B7985540	Mounting Cast	M1	300M100N	Lens Cap
M6	57B8309970	Adhesive Sheet	M2	27B7981610	Hood
M7	101A7985310	Iris Motor Ass'y	M4	YF47B1607400	Lever
M8	101A7985240	Focus Motor Ass'y	M5	57K98970	Rear Cap
M9	101A7985290	Zoom Motor Ass'y	M6	56B6674120	Belt
M10	YW42B7168950	Rubber Bushing	M7	150B7438220	Pad
M11	46B7985560	Bracket	M8	YW11B6362720	Main Cover
M12	46B7985550	Bracket	M9	YW57B3922140	Rubber Cap
M13	111B6362640	Cable Retainer	M10	YW57B6377180	Switch Cap
M14	11B7985410	Main Cover	M11	YW16A6362670	Switch Cap Ass'y
M15	58B8340150	Name Plate	M12	57B2160890	Switch Cap
M16	58B7985520	Label "Operation Mode"	M13	58B7654760	Name Plate
M17	57B7985570	Rubber Cap	M14	YW34A6362750	Iris Gear Ass'y
M18	58B4963810	Label "G"	M17	YW34A6362760	Zoom Gear Ass'y
M19	57B4907320	Rubber Cap	M18	YW42B7168950	Rubber Bushing
ACCESSORY PARTS/PACKAGING PARTS			M19	YW41B6362770	Base Casting
M21 △	7J1A079A	Operating Instructions	M20	57B1990290	Connector Cap
M25	203B7571240	Cushion	M21	192M0601H	C Ring
M26	205A7571250	Packaging Case	M22	16B3965030	Zoom Mode Lever
M27	YVW8FA0134A4	Packaging Label	M23	YW13B6363380	Stopper
			M24	31B3965040	Bushing
			M25	29B3630160	Rotating Disk
			M26	50B3833280	Coiled Spring
			M31	111B6362640	Cable Retainer
			M32	YW46B6362700	Bracket
			M33	115B6362710	Insulation Cover
			M34	314A6362690	Seesaw Control Ass'y
			M35	YW110K555380	Cable Retainer
			ACCESSORY PARTS/PACKAGING PARTS		
			M41 △	7J1A080A	Operating Instructions
			M45	203B7571240	Cushion
			M46	205A7571250	Packaging Case
			M47	YVW8FA0137A4	Packaging Label

